





Cent Wells re

July 29,  
July 31, 25,  
29.

Tar Springs 3<sup>rd</sup> Chester co.

Asphalt quarry near Garfield

Henry J. Green

1191 Bedford Ave.

Brooklyn, Mass.

Wm F. Prouty,

Univ. of Alabama,

University,

Ala.

Stevens, Ned. Market, near  
Fourth.

Garfield quarry, 3<sup>rd</sup> Chester co.

Geo. McCubbin at St. Jamesport,

Wants an elementary book on  
geology.

Geo. McCubbin, 1000 1<sup>st</sup> St. N. Y. C.

Sil + D or. of East Central Ky

~~Prof C T Jackson Harvard Univ~~  
~~Prof Stuart Meller Chicago~~  
~~Prof. Wm F Prouty University <sup>Ala</sup>~~  
~~Prof. Chas Schuchert Yale~~  
~~Mr. E O Ulrich Washington~~

Preliminary Notes in Cincinnati  
Fossils.

~~Prof C. T. Jackson, Harvard Univ~~  
~~Prof Stuart Meller~~  
~~Prof. Charles Schuchert~~  
~~Dr. E O Ulrich~~  
~~Prof Ray S Burrler~~  
~~Mr. John M. Nichol~~  
~~Prof. W. S. Blatchley~~  
~~Prof John M Clarke~~  
~~Prof C R Primmer~~

Rhynd. laevis.

Gravelly

17 January 1965

Alameda 28 secondary  
like mine

On 11/12/12



10/10/10  
 10/10/10  
 10/10/10

2000 - 2000 - 2000

At top of Bitten road that is  
 exposed the top of the Bitten  
 ss. On the east side of the  
 knot this ss. is massive for  
 a thickness of 33 feet from the  
 top. The base was not seen.

- 24 ft. Shaly thin bedded ss. blue, some  
 yellow. No fossils.
- 25 ft. purplish brown top, then greenish  
 clay shales, with  
 irregular, crinoid flat in situ.  
 toward the top. We on the top is  
 except the layers, especially  
 thin crinoid fossils.
- 33 ft. fairly massive limestone. Bed C  
 near top of bed.  
 merging into a sort of limestone.
- 7 ft 3 in. bluish sandy sh. blue
- 5 ft 6 in. shaly brown ss.
- 3 ft 3 in. crinoid limestone. B
- 15 ft in. C. mass.
- Red sand at top.

Ironing beds not worked out

Top of bed north of Sample 12

27 ft. cherty brown sandstone,  
(27 ft. sandstone. Bed E  
14 ft. sandstone.  
55 ft. soft bluish clay shale.

except at top Bed D  
24 ft. massive blue ls. fossiliferous  
cherty at the top.

16 ft. cherty blue ls. fossiliferous, upper  
bed. No fossils.  
probably a red top, then green ls.  
25 ft. soft clay shale.

agassiz, 6 ft. fossiliferous ls. in situ.  
toward the top, the top is  
greenish. Very fossiliferous, especially  
with small brachiopods.

23 ft. fossiliferous sandstone. Bed C  
very fossiliferous.  
passing into a soft sandstone.

7 ft. 5 in. bluish silty shale. Bed A  
5 ft. 6 in. cherty brown ls.

5 ft. 3 in. cherty brown sandstone. Bed B  
15 ft. cherty brown sandstone.

Bed C and D Sample

10 1/2

20 1/2

3 1/2

2 1/2

18 1/2

18 1/2

18 1/2

18 1/2

7 1/2

7 1/2

7 5 5



## Harris Quarry

16 ft massive l. fragments <sup>fragments</sup> ~~bedded~~

5 1/2 ft limed ss. <sup>very</sup> ~~very~~ <sup>new</sup> ~~new~~

11 ft ss. fragments

5 1/2 ft. l.

11 ft top of quarry exposure, whitish l.

1 1/2 ft weathering shaly

2 1/2 ft lighter colored l. in several layers,   
 <sup>fine grained</sup> ~~fine grained~~

3 ft chert common in upper part, grey

1 1/2 ft weathering shaly.

all around the quarry.

unconformity division line

46 ft 11 1/2 ft grey fine grained l. top on   
 south end of quarry.

8 1/2 ft grey fine grained l. flat ledge

1 1/2 ft soft limestone.

suggesting unconformity.

but since this is the underlying rock

1 ft whitish limestone, with clayey bottom

6 1/2 ft darker, fine grained l.

6 1/2 ft whitish strongly oolitic l.

3 1/2 ft darker rock, oolitic in part, with   
 chert.

base of Harris

*Sigillaria* occurs in the massive   
 ss. fragments at the top of the   
 quarry. Is this Big Clifty or   
 Carlisle? Since these fragments   
 may have become intermingled,   
 this is uncertain.

Lower half of Leona is a greyish   
 limestone. Upper half of Fredonia   
 is a darker limestone interbedded   
 with whitish oolitic rock.

South of the Main quarry 100 yds   
 there is a small quarry with about   
 15 ft of white oolitic massive l.   
 below the base of the main   
 quarry.

Wednesday July 19.

5. 11

detracting, and the top of the lake.



Tuesday July 20.

12- 700 ft. - 7.00 A.M.

14- 700 ft. - 7.00 A.M.

15- 550 ft. - 7.00 A.M.

16- 550 ft. - 7.00 A.M.

17- 550 ft. - 7.00 A.M.

18- 550 ft. - 7.00 A.M.

19- 550 ft. - 7.00 A.M.

20- 550 ft. - 7.00 A.M.

21- 550 ft. - 7.00 A.M.

22- 550 ft. - 7.00 A.M.

23- 550 ft. - 7.00 A.M.

24- 550 ft. - 7.00 A.M.

25- 550 ft. - 7.00 A.M.

26- 550 ft. - 7.00 A.M.

27- 550 ft. - 7.00 A.M.

28- 550 ft. - 7.00 A.M.

29- 550 ft. - 7.00 A.M.

30- 550 ft. - 7.00 A.M.

5- 500 ft. - 7.00 A.M.

Large corals, fossils, etc.

66 ft - 500 ft. - 7.00 A.M.

20 ft - 500 ft. - 7.00 A.M.

34 ft - 500 ft. - 7.00 A.M.

20 ft - 500 ft. - 7.00 A.M.

20 ft - 500 ft. - 7.00 A.M.

20 ft - 500 ft. - 7.00 A.M.

20 ft - 500 ft. - 7.00 A.M.

20 ft - 500 ft. - 7.00 A.M.

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20 ft - 500 ft. - 7.00 A.M.

20 ft - 500 ft. - 7.00 A.M.

20 ft - 500 ft. - 7.00 A.M.

- 24 - 660 - at 11:15 PM  
 about 1/2 mile from here
- 26 - 600 - at 11:50 PM  
 about 1/2 mile from here  
 about 1/2 mile from here
- 22 - 700 - at 3:30 PM
- 7 - 735 - at 3:40 PM  
 along N. dip.
- 28 - 725 - at 4:15 PM
- 29 - 735 - at 4:30 PM
- 30 - 665 - at 5:15 PM  
 about 1/2 mile from here  
 S dip.
- 31 - Holly - at 5:30 PM
- 32 - 750 - at 5:45 PM  
 about 1/2 mile from here  
 S dip SE.
- 650 - Big Spring at 7:40

Turn at left beyond barn.

2 1/2 miles

Change into public road

turn left 200 yds, come to gate  
 on right

take road from farm, 1/2 mile

public road in deep hollow

turn right. Join to Big Spring



Wednesday, July 21

55 - 1000 ft. - 30 ft. - 11

1000 ft. - 700 ft.

700 ft. - 500 ft.

500 ft.

25

at 1000 ft. - 700 ft. - 500 ft. - 300 ft. - 200 ft. - 100 ft. - 50 ft. - 25 ft. - 10 ft. - 5 ft. - 2 ft. - 1 ft. - 1/2 ft. - 1/4 ft. - 1/8 ft. - 1/16 ft. - 1/32 ft. - 1/64 ft. - 1/128 ft. - 1/256 ft. - 1/512 ft. - 1/1024 ft. - 1/2048 ft. - 1/4096 ft. - 1/8192 ft. - 1/16384 ft. - 1/32768 ft. - 1/65536 ft. - 1/131072 ft. - 1/262144 ft. - 1/524288 ft. - 1/1048576 ft. - 1/2097152 ft. - 1/4194304 ft. - 1/8388608 ft. - 1/16777216 ft. - 1/33554432 ft. - 1/67108864 ft. - 1/134217728 ft. - 1/268435456 ft. - 1/536870912 ft. - 1/1073741824 ft. - 1/2147483648 ft. - 1/4294967296 ft. - 1/8589934592 ft. - 1/17179869184 ft. - 1/34359738368 ft. - 1/68719476736 ft. - 1/137438953472 ft. - 1/274877906944 ft. - 1/549755813888 ft. - 1/1099511627776 ft. - 1/2199023255552 ft. - 1/4398046511104 ft. - 1/8796093022208 ft. - 1/17592186044416 ft. - 1/35184372088832 ft. - 1/70368744177664 ft. - 1/140737488355328 ft. - 1/281474976710656 ft. - 1/562949953421312 ft. - 1/1125899906842624 ft. - 1/2251799813685248 ft. - 1/4503599627370496 ft. - 1/9007199254740992 ft. - 1/18014398509481984 ft. - 1/36028797018963968 ft. - 1/72057594037927936 ft. - 1/144115188075855872 ft. - 1/288230376151711744 ft. - 1/576460752303423488 ft. - 1/1152921504606846976 ft. - 1/2305843009213693952 ft. - 1/4611686018427387904 ft. - 1/9223372036854775808 ft. - 1/18446744073709551616 ft. - 1/36893488147419103232 ft. - 1/73786976294838206464 ft. - 1/147573952589676412928 ft. - 1/295147905179352825856 ft. - 1/590295810358705651712 ft. - 1/1180591620717411303424 ft. - 1/2361183241434822606848 ft. - 1/4722366482869645213696 ft. - 1/9444732965739290427392 ft. - 1/18889465931478580854784 ft. - 1/37778931862957161709568 ft. - 1/75557863725914323419136 ft. - 1/151115727451828646838272 ft. - 1/302231454903657293676544 ft. - 1/604462909807314587353088 ft. - 1/1208925819614629174706176 ft. - 1/2417851639229258349412352 ft. - 1/4835703278458516698824704 ft. - 1/9671406556917033397649408 ft. - 1/19342813113834066795298816 ft. - 1/38685626227668133590597632 ft. - 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1/276069853904390551497390234491081018098044160816409176545656985092096 ft. - 1/552139707808781102994780468982162036196088321632818353091313970184192 ft. - 1/1104279415617562205989560937964324072392176643265636706182627940368384 ft. - 1/2208558831235124411979121875928648144784353286531273412365255880736768 ft. - 1/4417117662470248823958243751857296289568706573062546824730511761473536 ft. - 1/8834235324940497647916487503714592579137413146125093649461023522947072 ft. - 1/17668470649880995295832975007429185158274826292250187298922047045894144 ft. - 1/35336941299761990591665950014858370316549652584500374597844094091788288 ft. - 1/70673882599523981183331900029716740633099305169000749195688188183576576 ft. - 1/141347765199047962366663800059433481266198610338001498391376376367153152 ft. - 1/282695530398095924733327600118866962532397220676002996782752752734306304 ft. - 1/565391060796191849466655200237733925064794441352005993565505505468612608 ft. - 1/1130782121592383698933310400475467850129588882704011987131011010937225216 ft. - 1/2261564243184767397866620800950935700259177765408023974262022021874450432 ft. - 1/4523128486369534795733241601901871400518355530816047948524044043748900864 ft. - 1/9046256972739069591466483203803742801036711061632095897048088087497801728 ft. - 1/18092513945478139182932966407607485602073422123264191794096176174995603456 ft. - 1/36185027890956278365865932815214971204146844246528383588192352349991206912 ft. - 1/72370055781912556731731865630429942408293688493056767176384704699982413824 ft. - 1/144740111563825113463463731260859884816587376986113534352769409399964827648 ft. - 1/289480223127650226926927462521719769633174753972227068705538818799929655296 ft. - 1/578960446255300453853854925043439539266349507944454137411077637599859310592 ft. - 1/1157920892510600907707709850086879078532699015888908274822155275199718621184 ft. - 1/2315841785021201815415419700173758157065398031777816549644310550399437242368 ft. - 1/4631683570042403630830839400347516314130796063555633099288621100798874484736 ft. - 1/9263367140084807261661678800695032628261592127111266198577242201597748969472 ft. - 1/18526734280169614523323357601390065256523184254222532397154484403195497938944 ft. - 1/37053468560339229046646715202780130513046368508445064794308968806390995877888 ft. - 1/74106937120678458093293430405560261026092737016890129588617937612781991755776 ft. - 1/148213874241356916186586860811120522052185474033780259177235875225563983511552 ft. - 1/296427748482713832373173721622241044104370948067560518354471750451127967023104 ft. - 1/5928554969654276

52. - 740 - summit of tip of ridge.  
Peak may have been much  
more. at 4.45 PM.

53. - 770 - summit of tip of ridge.  
Peak may have been much more.

54. - 770 - summit of tip of ridge.  
Peak may have been much more.

Barometer at Ivington

Monday 588 — 7.30

580 9.30

520 11.30

580 1.30

570 3.40

Tuesday 490 — 7.30

490 10.45

490 11.45

500 12.35

540 3.20

Wednesday 820 — 7.30 AM

980 — 7.07 PM.

993 - lower limb at Petershill  
at 11.40 AM

1060 - tip of l. exposed at 3.45 PM

1140 - tip of kn. l. suggests  
80 ft of sandstone.

1052 - level of lower spring at 3.45  
by me, although it is 3.45  
at 2.0 at base actually seen

24 ft of l. exposed at 2.00 PM  
which is 100 ft in length.

24 ft of l. exposed at 2.00 PM  
which is 100 ft in length.

20 ft of l. exposed at 2.00 PM

52 ft of massive. Chalk, with  
the basal part 3 ft thick  
crumbly + cross-bedded.

2 ft of l. exposed at 2.00 PM

2 ft of l. exposed at 2.00 PM

2 ft of l. exposed at 2.00 PM

2 ft of l. exposed at 2.00 PM

Foundry at Ivington in Big Chert

21. 7. 11 at 11.30

11. 7. 11 at 11.30



June 2nd 1911, Cornwall

Went to the ...

...

...

...

...

57- Found ...

1070 ...



...

...

59, ...

...

60- ...

...

...

...

1 - 122 ft 3.30 PM

2 - 122 ft 3.30 PM

3 - 122 ft 3.30 PM

4 - 110 ft 4.45 PM  
west end by clay sand.  
thin layers of sand.  
with, black sand.

5 - 110 ft 4.45 PM  
is overlain by sand, the sand  
like that at Panguitch just  
above the Spring. The sand is  
30 ft thick. The sand is  
the upper Carboniferous  
mass. Color brown, about  
brown. The sand is  
M. R. R.

800 ft 5.30 PM

900 ft 5.30 PM

900 ft 5.30 PM

900 ft 5.30 PM

10 - 1011 ft 5.15 PM

10 - 1011 ft 5.15 PM

Section of the  
just off the Cave Spring  
valley, about 1/2 mile S of  
Rabbit Creek, where the  
road W of Black Point.  
about 1/2 mile S of the road  
above.

1000 ft 7.30 AM

1000 ft 7.30 AM

1000 ft 7.30 AM

1000 ft 7.30 AM

1000 ft 7.30 AM

1000 ft 7.30 AM

1000 ft 7.30 AM

560 ft elevation of

560 ft elevation of

560 ft elevation of

560 ft elevation of

560 ft elevation of

560 ft elevation of

520 ft top of ... at 10.04 AM  
 7 ft ...  
 2 ft ...  
 16 ft ... fossils ...  
 ...  
 ... 5 ft ...

540 ft ...  
 5 ft ...  
 14 ft ...  
 2 ft ...

Indian dance, SE of ...  
 50 ft limestone  
 8 ft ...  
 R of preceding section.

510 ft at Black Bennett's store  
 at 12.25  
 73 at ... CO.

530 at ... Bennett's store, formerly  
 ... West of  
 ...

535 ...  
 ... at ...

570 St ...  
 ...  
 ...  
 ...





Index to the Middle digging from Gas. &  
 W. & A. Stephens port. ...

0 of sample		fine gr. l. (Holly?)	22
1		... ..	
2		limestone particles. Holly?	30
3	Big cliffs	ss + a few cl. particles	
		l. with numerous crin. heads	48
		... ..	75
4	Chana	coarsely cryst. crinoid l.	85
5		hyaline sandy particles + coal particles.	100
6		white fine gr. l. with coal particles.	130
7		Fine sandy particles imbedded (numerous) in l.	150
8		Fredonia oolite grains rare.	200
9		Fredonia oolite grains distinct.	250
10		Fredonia oolite grains common.	260
11		Fredonia oolite grains	260
12		Fredonia Distinct Oolite only	270
13		... .. grains	280
14		small grained l.	290
15		fine gr. l. with fish tooth fragment.	300
16	St Louis	fine gr. grey l. with chert	310
17		fine gr. grey l.	320
18		fine gr. grey l. with chert.	330

Chana 152 ft  
 Fredonia 80 ft  
 St Louis 580 ft

19		fine gr. white l.	340
20		fine gr. grey l.	350
21		fine gr. grey l.	360
22		fine gr. grey l.	370
23		medium gr. grey l.	380
24		medium gr. l. + black clay	390
25		strong ...	400
26		rather coarse gr. dark l. + white calcite particles.	410
27		fine gr. grey l. mingled with dark particles.	420
28		fine gr. dark grey l. a little chert.	430
29		fine gr. dark grey argill. l.	440
30		medium gr. dark gr. l.	450
31		fine gr. grey l.	460
32		fine gr. light gr. l. very hard.	470
33		fine gr. grey (dark) l.	480
34		fine gr. light grey l. with calcite particles.	490
35		fine gr. l.	500
36		fine gr. grey l. with considerable l. with a little chert	510
37		fine gr. grey l.	520
38		fine gr. grey l.	530

fine grained limestone

59	light grey fine gr. l.	056
60	medium gr. light grey l.	002
61	fine gr. dark grey l.	608
62	fine gr. grey l.	680
63	light grey fine gr. l.	086
64	medium gr. light gr. l.	092
65	medium gr. grey l.	712
66	rather coarse gr. grey l.	735
67	medium gr. dark grey l.	755
68	fine gr. dark grey l.	772
69	fine gr. dark grey l. with some light grey medium gr.	786
70	fine gr. dark grey l.	794
71	medium gr. light gr. l. + dark grey fine gr. l.	807
72	fine + medium gr. dark grey l.	813
73	fine grained dark grey l.	871
74	rather coarse grained light grey or whitish l.	881
75	fine gr. dark grey l. with a little chert.	884
76	coarse grained light, whitish l. with iron ore bands.	885
77	coarse gr. whitish l.	908
78	Rather coarse gr. crim. l.	911
79	Rather coarse gr. l.	921
80	Rather coarse gr. l. - shaly clearage.	934

St Louis

61	Medium gr. light gr. l.	1000
62	Medium gr. light gr. l.	1000
63	Medium gr. light gray l.	1000
64	(fine gr. l. very fine fragments full of minute bryozoan fossils.)	1000
65	very fine grained dark argill. rock.	1000
66	fine grained argill. rock.	1000
67	fine gr. dark grey argill.	1000
68	fine gr. dark grey argill. rock.	1000
69	fine gr. dark gray argill. rock.	1000
70	fine gr. dark gr. argill. rock.	1000
71	fine gr. dark grey argill. rock.	1000
72	Black slate	1234
73	Black slate	1000
74	Black slate	1000
75	Black slate	1000
76	Black slate	1000
77	Black slate	1000
78	Black slate	1000
79	Black slate	1000
80	Black slate	1000

Re check 874 +

Black slate 85



Bed E. 50 ft. sand & gravel  
 11 ft soft clay sh. bluish  
 4 ft ...  
 14 ft ...  
 22 ft ...  
 11 ft ...  
 5 ft ...  
 10 ft ...  
 1 ft ...  
 5 ft ...  
 14 ft ...  
 4 ft ...  
 3 ft ...  
 16 1/2 ft ...  
 32 ft ...  
 11 ft ...  
 2 1/2 ft ...  
 8 ft ...  
 18 1/2 ft ...  
 22 ft ...  
 27 1/2 ft ...  
 7 ft ...  
 11 ft ...

Tertiary gravel at 860-870  
 at 11.30 P.M.

Tuesday, Aug 27 1907

ss. layers ...  
 Day ...  
 10 ft ...

Bed E

Loc. 74.

Section of river valley South of  
road, 300 yds west of Proctor Roberts.  
Two miles east of

7 1/2 ft thin bedded sandy ss.

2 ft 11 in. sh. mottled ss.

12 ft clay shale at top, lower half covered  
4 ft l. at base level of valley

13 1/2 ft sandy shale, no bedding  
5 1/2 ft mottled.

16 1/2 ft clay sh. ss.

22 ft clay shale with fossils with fossils  
4 ft l. in sand.

Box C, had for shaly. ? Not  
actually seen or as to be certain

75.

Section of river valley South of  
road, 300 yds west of Proctor Roberts.  
Two miles east of  
road, 300 yds west of Proctor Roberts.  
Two miles east of  
road, 300 yds west of Proctor Roberts.  
Two miles east of

Hotel. 615 at 1.00 B.M.

Exposure of

1 ft. ...

10 ft. ...

3 ft. ...

11 ft. ...

3 1/2 ft. ...

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Sample ...

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Sample ...

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The 11 mural paintings have been

21. 77 - 21 775 / 21

Ch. 1000 1904, in center; 1907

1000

11/1/21

1815 21, whole.

7. 11. 1919

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

Sept 10, 1914.

at 7.46 AM

Does not keep like  
Western honey. Most of the  
note is fine flavored and frag-  
rantly perfumed and with  
a little medicinal crystal line +  
white & sweet top.

Limestone with calcite, 685 at  
10,445. This may correspond  
to the so-called *Carbon* at  
St. John church.



Thursday July 29,  
Loc. 88. 665 ft at 5.30 P.M.  
Crowned 520 ft at 4.10 P.M.

On John H. Williams' land, in the  
Little Pond. West of Wolf Lake.  
About where the abandoned  
liver was on, Found a lot  
water sand at 6.10 P.M.

2 mi. E of station, on top of Hill. Crown  
they are forming a well at present.  
See map. The position during  
the 1st. E. of Hill. Crown. The  
Crown during the 1st. Go to  
Station to find out.

Probably the water pumped  
out the old well 5 mi. NW of  
Station, is located, in the Crown  
place, 1 mi. SW of Walden or  
Barn. Looking at it.

Crowned 440 ft - 7.30 A.M.

Loc 90 - 640 ft of L. Upper Ordovician  
to 1000 ft of L. Upper Ordovician  
and thickness.

Loc 91 - 665 ft at 9.20 A.M. <sup>10.10 A.M.</sup>

Loc 92 See notes

Loc 93 - 455 ft. 10.15 A.M.

Crown - 10.15 A.M.

Crown the work; at 470 ft

470 ft. The work is done

at 470 ft. The work is done

at 470 ft. The work is done

Loc 94 - 490 ft - at 10.35 A.M.

Crown the work

500 ft. The work is done

at 500 ft. The work is done



Loc 95. 750 = top of bed.

Mass.

730 ft = top of yellow at 11.30 AM.

clay shale

121 ft clay shale above

2 ft clay shale

5 ft clay shale

7 ft clay shale

10 ft clay shale

12 ft clay shale

14 ft clay shale

16 ft clay shale

18 ft clay shale

20 ft clay shale

22 ft clay shale

24 ft clay shale

26 ft clay shale

28 ft clay shale

30 ft clay shale

32 ft clay shale

34 ft clay shale

36 ft clay shale

38 ft clay shale

40 ft clay shale

42 ft clay shale

44 ft clay shale

46 ft clay shale

48 ft clay shale

50 ft clay shale

52 ft clay shale

54 ft clay shale

56 ft clay shale

58 ft clay shale

60 ft clay shale

62 ft clay shale

64 ft clay shale

66 ft clay shale

68 ft clay shale

70 ft clay shale

72 ft clay shale

74 ft clay shale

76 ft clay shale

78 ft clay shale

80 ft clay shale

82 ft clay shale

84 ft clay shale

86 ft clay shale

88 ft clay shale

90 ft clay shale

92 ft clay shale

94 ft clay shale

96 ft clay shale

98 ft clay shale

100 ft clay shale

Loc 90.

11 ft = top of Brown shale

5 ft sandstone

1 ft l.

3 ft sandstone

1 ft l.

1 ft sandstone

15 ft l.

18 ft Br. clay, cor. at level for 15 ft

Loc 91

base of Brown shale

15 ft sandstone

22 ft clay shale

2 ft l.

15 ft clay shale

1 ft l.

17 ft sandstone

1 ft l.

4 ft sandstone

7 ft l.

4 ft l. but some thin clay shale

11 ft Br. clay, cor.

Base of Brown shale

Loc 92 - top of Brown shale

275 ft at 4.20 PM

Top of limestone 200 ft at 4.45 PM

Top of Holly l. 635

Top of Brown l. 610 ft.

about 510 feet 4.50 PM

George T. Primary,



665

560

105

Black shale

1234

105

1135

475. 92



Dec. 86 - 7:15 at 1:55 AM

Dec. 87 - 1:15 at 6:25 AM. Dig

by 4. 100 ft. of heavy  
l. in situ below. This is  
supposed to be the top of the  
Fossiliferous l.

Dec. 88 - 1:15 at 7:30 AM

Dec 93 - top of l. age uncertain

Dec 94 - 7:15 at 9 AM. 100 ft. below

Dec 97. 7:50 at 10:15 AM. 100 ft. below

considerable clay shale  
250 ft. top of limestone.  
at 7:15 PM. 100 ft. below

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below  
at 7:15 PM. 100 ft. below

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below  
changed to 500 ft. on crest of hill  
the middle of

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below

6:30 - top of clay shale  
clay shale

7:15 - top of l. 2 ft. below  
at 7:15 PM. 100 ft. below

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below

7:15 - 100 ft. below top of limestone  
at 7:15 PM. 100 ft. below

6:30 - top of l. 100 ft. below

6:30 - top of l. 100 ft. below

6:30 - top of l. 100 ft. below  
at 12:15 PM

6:30 - top of l. 100 ft. below

6:30 - top of l. 100 ft. below  
at 12:15 PM

6:30 - top of l. 100 ft. below  
at 12:15 PM

6:30 - top of l. 100 ft. below  
at 12:15 PM

6:30 - top of l. 100 ft. below  
at 12:15 PM

W. J. H.

7/15 - 11/15 - 1/15 - 3/15

Loc 103. - 735 ft - 3,25 P.M.  
Corner Indiana P. E.

Loc. 104 - 745 ft 3,40 P.M.  
Corner Indiana P. E.

Opposite corner of H.

Loc 105 720-740 ft  
family of ss. with inclusions  
of ls. - 3' from top  
above ls. and some shales  
from 100 ft down. At 10 P.M.  
This part is very rough. Cracked  
Below this is a 2' clay shale.

Loc 106. Same level as loc 105.

Loc. 107 670 at 5:00 P.M.

Loc. 108. 680 top of Holly l at  
5:10 P.M.

690 Stephensport at  
6 P.M.



W. S. Tarboe,

Chemist

St. Louis, Mo.

Filed Aug. 22, 1925

329723.

1890-1891

1892-1893

1894-1895

1896-1897

1898-1899

1900-1901

1899 2.22

1902

3.08

1900-1901

21.90 1.22

1907-1908

2.7 3

Lower Devonian

average 77% CaCO<sub>3</sub>

5 ft above base of ...

core ...

100 deep ...

109. W. Cedar Grove Church, 1 mi S of  
M. M. M. Old well 1839 - 1918.  
117 ft deep, 10 in diameter.  
Bottom 10 ft from top.

Dec 1, 1918.  
At 30 ft from surface  
water was 300 ft in hole.  
In small quantity, as the  
hole was nearly full of  
water.

Top of Sandstone 700  
Bottom of " " at 943 ft  
at 975 ft. The sandstone  
is in large quantity,  
which goes up to 100 ft  
top of well and the further  
the hole goes down at bottom.

About 35 ft after beginning  
the fruitful drilling (755 ft) the  
first gritty sand was struck.

From the bottom of the  
well the 100 ft of sandstone  
was struck. The sandstone  
is in great layers the  
black color.

110. W. Cedar Grove Church, 1 mi S of  
M. M. M. Old well 1839 - 1918.  
117 ft deep, 10 in diameter.  
Bottom 10 ft from top.

2000 - 2000

June 10

50 good maps for documents  
100 maps for \$1000 per  
year. Contract for 5 years  
of maps for 5 years.

There is a small river flowing  
near mouth of the  
great river of water. The water  
is very good. The water  
is very good.

The water is very good. The water  
is very good. The water  
is very good.

The water is very good. The water  
is very good. The water  
is very good.

The water is very good. The water  
is very good. The water  
is very good.

The water is very good. The water  
is very good. The water  
is very good.



Monday, July 26

6.10 AM	—	800
8.10		820
10.10		790
12.10 PM		820
2.10		840
4.10		860
6.10		860

---

Tuesday July 27

6.10		880
8.10		880
10.10		880
12.10 PM		880
2.10		900
4.10		920
6.10		920

---

Wednesday July 28

7.00		800
9.00		800
11.00		800
1.00 PM		800
3.00	—	820

---

Thursday Jul, 29.

6.30		790
8.30		780
10.30		790
12.30		800
2.30		840
4.30		860
6.30		860

---

Friday July 30

6.10		880
8.10		880
10.10		900
12.10		920
2.10		960
4.10		1000
6.10		1020

---

Saturday July 31

9.30	—	1020 ft
11.30	—	1020
1.30	—	1040
3.30	—	1060
5.30	—	1080

Monday Aug 2

112 West of 55th St at 7.30 PM

~~Went to the top of the hill~~

~~225 - top of hill - 100 ft high~~

~~100 - top of hill - 100 ft high~~

~~reflected on a hill, 100 ft high~~

~~100 - top of hill - 100 ft high~~

~~100 - top of hill - 100 ft high~~

~~100 - top of hill - 100 ft high~~

~~100 - top of hill - 100 ft high~~

~~100 - top of hill - 100 ft high~~

~~100 - top of hill - 100 ft high~~

~~Went to the top of the hill~~

~~Handwritten signature~~

~~V.V.V.V.V.V.V.V.~~

[illegible]

1891

Page 1

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1. The first part of the document is a letter from the President of the United States to the Secretary of the Navy, dated 18th March 1899. The letter is addressed to the Secretary of the Navy, Department of the Navy, Washington, D.C. The letter is signed by the President of the United States, William McKinley.

5 ft gray shale with fossils at  
base of bed Bed A2

1. 1st. Limestone, or limestone  
It is limestone  
It is limestone

✓✓✓✓✓







Aug 4. Wednesday  
100 ft below at 7:30

Loc 122 - 710 ft

Loc 123 - 720 ft

770 ft Top of 4. Fresh water  
Fresh water made at 745 ft

750 ft at bottom of ...  
leading to ...

770 ft - about 100 ft ... white  
... ..

795 ft strong, white ...  
to 860 ft strongly white ...

Loc 124 712 ft = level of good old well.  
at 8:30 AM

Loc 125 S of mouth of ... at 725, there  
is Fresh water ... in place at  
8:45 AM

Loc 126 - 730 ft

Loc 127 - 770 ft at 8:15 am. ...  
Fresh water ...

Loc 128 - 775 ft at 9:00 am ...  
Fresh water ...

Loc 129 - 680 ft ...  
... ..  
11:37 AM

Highest Fresh water ...  
at 750 ft ...

Loc 130 - 785 ft

Loc 131 592. Fresh water ...  
... ..  
10:30 AM

8:12 AM

Loc 132

858 Collected from 11.50 AM to 12.50 PM

Loc 133 - 810 AM

Loc 134 - 722 at 11.20 AM

Loc 135 - 740 at 11.40 AM

Up to 8, 9, Hamilton

190 at 12.40 PM, 290 at 1.00 PM

720 - 810 AM

740 - 810 AM

950 - 810 AM

120 - 810 AM

810

790 - 810 AM

782 - 810 AM

Loc 137/785 - 810 AM

Loc 138/790 - 810 AM

at 1.15 PM

Loc 139 - 815 AM

at 2.20 PM

815 AM

Loc 141 - 790 to 810 AM

at 1.15 PM

at 1.15 PM

Loc 142 - 810 - 810 AM

at 2.00 PM

at 2.00 PM

at 2.00 PM

at 2.00 PM

Loc 143 - 810

3.30 PM

Loc 144 - 740/8 at 3.35 PM

Loc 145 - 710/8 at 3.40 PM

Loc 146 - 710/8 at 3.45 PM

Loc 147 - 710/8 at 3.50 PM

Loc 148 - 710/8 at 3.55 PM

Loc 149 - 710/8 at 4.00 PM

Loc 150 - 710/8 at 4.05 PM

Loc 151 - 710/8 at 4.10 PM

Loc 152 - 710/8 at 4.15 PM

Loc 153 - 710/8 at 4.20 PM

Loc 154 - 710/8 at 4.25 PM

Loc 155 - 710/8 at 4.30 PM

Loc 156 - 710/8 at 4.35 PM

Loc 157 - 710/8 at 4.40 PM





Loc 166 - 680 ft. 588, in mountain side  
at 12:15 PM

Loc 167 - 800 ft. 715 ft. at 12:00 PM  
at 12:50 PM.

495 ft. Loc. 168 at 12:00 PM at  
Brazos River.

Loc 168 - 800 ft. 715 ft. at 12:00 PM  
at 12:50 PM.

Loc 169 - 800 ft. 715 ft. at 12:00 PM  
at 12:50 PM.

Charles H. H. Superintendent  
of the H. H. Co. at the H. H. Co.  
at the H. H. Co. at the H. H. Co.

Loc 170 - 800 ft. 715 ft. at 12:00 PM  
at 12:50 PM.

5th day. 2 ft. to 3 ft. of  
fossils of shells & 2 ft. to 3 ft. of  
fossils of shells & 2 ft. to 3 ft. of

Loc 169 - 710 ft. at 3 PM. H. H. Co.  
at 3 PM.

Loc 170 - 800 ft. 715 ft. at 12:00 PM  
at 12:50 PM.

Loc 171 - 800 ft. 715 ft. at 12:00 PM  
at 12:50 PM.

Loc 172 - 800 ft. 715 ft. at 12:00 PM  
at 12:50 PM.

Loc 173 - 800 ft. 715 ft. at 12:00 PM  
at 12:50 PM.

Loc 174 - 800 ft. 715 ft. at 12:00 PM  
at 12:50 PM.

Sunday Aug 2,  
Ston 1300 - 1400

11. 1300 - 1400 - Ston 1300 - 1400

Ston 1300 - 1400 - Ston 1300 - 1400

Ston 1300 - 1400 - Ston 1300 - 1400

Ston 176 - 690 at 8:15 AM.

Ston 177 - 690 at 8:15 AM.

Ston 178 - 690 at 8:15 AM.

Ston 179 - 690 at 8:15 AM.

Ston 180 - 690 at 8:15 AM.

Ston 181 - 690 at 8:15 AM.

Ston 182 - 690 at 8:15 AM.

Ston 183 - 690 at 8:15 AM.

Ston 184 - 690 at 8:15 AM.

Ston 185 - 690 at 8:15 AM.

Ston 186 - 690 at 8:15 AM.

184 - 720 ft -

185 - 720 ft -

186 - 720 ft -

187 - 720 ft -

188 - 720 ft -

189 - 720 ft -  
Tar Springs co. Kansas, 720 ft  
s. detritus

190 - 720 ft -

191 - 720 ft -

192 - 720 ft -

193 - 720 ft -

194 - 720 ft -

195 - 720 ft -

196 - 720 ft -

197 - 720 ft -

198 - 720 ft -

199 - 720 ft -

200 - 720 ft -

201 - 720 ft -

202 - 720 ft -

203 - 720 ft -

204 - 720 ft -

205 - 720 ft -

206 - 720 ft -

207 - 720 ft -

208 - 720 ft -

209 - 720 ft -

210 - 720 ft -

211 - 720 ft -

212 - 720 ft -

213 - 720 ft -

214 - 720 ft -

215 - 720 ft -

216 - 720 ft -



7/11 Sunday, July 11

1/4 2100

3/1 1100

11/2

low water

Loc 62 - 781 ft at 4 PM

Loc 64 - 781 ft at 4.50 PM

Base of fossils for sea level  
over 1000 ft.

Belmont & Long

Thompson & ...

This is ...

Over this I ...

From ...

... 11 ft ...

... 11 ft ...

Invest ... at 685  
ft. but not ...

...

7/11 ... 5.45 PM

Overland ...

... 7.90

This ... 3.4 ft ...

as far as ...

... 11 ft ...

...

...

...

...

...

...

...

...

...

Saturday, Aug 7.

470 at 1.00 P.M. in P. ...  
475 at 1.15 P.M.

Loc 184 - 40 ft at 1.40 P.M. Top of  
... chert. The upper part  
of this chert is the gray, white  
indicating ...  
At this top probably at 50 ft  
... found ... and at  
this point near the ...  
... St. Louis & ...

Loc 195 - 60 ft at 8.15 AM, Fredrick  
... in place.

Loc 196 At ...  
Sand ...  
715 ft ...  
... 700 ft at 7 AM.  
680 strongly ...  
...  
675 ...  
...  
560 ft ...

Loc 197 - 510 ft at 11.20 AM.

Loc 197 - 510 ft at 11.20 AM.

Loc 197 - 510 ft at 11.20 AM.

Loc 197 - 510 ft at 11.20 AM.

Loc 197 - 510 ft at 11.20 AM.

Loc 197 - 510 ft at 11.20 AM.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 197.

Loc 200 - 285 ft at 1:40 PM

Loc 201 - 285 ft at 1:40 PM

Loc 202 - 285 ft at 1:40 PM

Loc 203 - 285 ft at 1:40 PM

Loc 71 - 618 ft at 4:20 PM

Loc 202 - 704 ft at 4:30 PM

Loc 203 - 704 ft at 4:30 PM

Loc 203 - 704 ft at 4:30 PM

Loc 179 - 635 ft at 4:10 PM

East of Loc 179, near Hanoverville,  
about 200 yds is a large refuse  
heap from some coal mine,  
from about the basal coal  
measure conglomerate.

Struck in E of town at 1230, - 1st  
well, went down this far at  
#3750 / 1500 ft. looking out for oil but  
no gas. In 1889  
1230 ft. at 1230 ft. in 1895 The well  
furnished 200 bbl of oil for  
kerosene. 50-100 bbl of oil  
The second well began in 1903, they  
went down 920 ft. and then quit.  
The third well was begun in 1904, got  
down 300 ft., drill got stuck  
+ quit.

First well was bored 1889. oil was made  
off, but was soon abandoned. Second well  
in 1895, 300 ft.

The 3rd well was 1300 ft. and quit, about  
1904. The 4th well was 1300 ft. and quit, about  
1904. The 5th well was 1300 ft. and quit, about  
1904.

Monday Aug 2

7<sup>00</sup> - 880  
9<sup>00</sup> - 880  
11<sup>00</sup> - 860  
1<sup>00</sup> - 860  
3<sup>00</sup> - 880  
5<sup>00</sup> - 880

---

Tuesday Aug 3

7 - 7.80  
9 800  
11 800  
1 800  
3 880 = 7.80 ?  
5 880 = 7.80 ?

---

Wednesday Aug 4

7.30 840  
9.30 840  
11.30 860  
1.30 880  
3.30 900  
5.30 920

---

Thursday Aug 5

7 - 900  
9 - 900  
11 - 900  
1 - 940  
3 - 980  
5 - 1000

---

Friday Aug 6

7 - 920  
9 - 920  
11 - 920  
1 - 940  
3 - 960  
5 - 980

---

Saturday Aug 7

7.30 - 860  
9.30 - 860  
11.30 - 860  
1.30 - 860  
3.30 - 880  
5.30 - 900



372 at Seng Norman coal  
mine, at point 40 feet above  
coal, = 382 ft for top of coal,  
 $\frac{3}{4}$  mi. S of Hannesville

380 ft to top of shale, about 15 for  
shale would place top of coal at  
365 ft. at south edge of town.

Semi-cannel coal mine,

335 ft = 422 U. S. G. S. bench  
mark at court house,

$$\begin{array}{r} 422 \\ 335 \\ \hline 87 \text{ add.} \end{array} \quad \begin{array}{r} 332 \\ 87 \\ \hline 419 - 420 \end{array}$$

Actual level of Seng Norman coal  
is 420 feet, 3 ft vein,

315 = R R level at station.













